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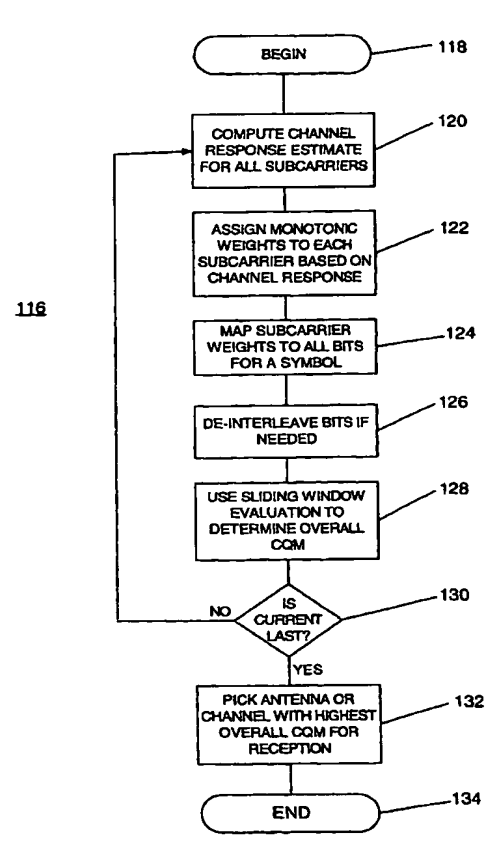
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(54) Title: METHOD AND APPARATUS FOR ANTENNA SELECTION USING CHANNEL RESPONSE INFORMATION IN A MULTI-CARRIER SYSTEM



(57) **Abstract:** The disclosed embodiments relate to a technique (116) for selecting one of several antennas or channels in a receiver based on the quality of the channel response at each of the antennas in a multicarrier system employing convolutional forward error-correction coding. Channel estimates are computed (120) for each subcarrier and monotonic weights are assigned (122) to each subcarrier based on the relative strength of the channel response for that subcarrier. The monotonic weights are mapped (124) to each bit in a symbol for each subcarrier and bits are de-interleaved (126), if needed. A sliding window evaluation is performed (128) to determine an overall channel quality metric (CQM) for each channel. The antenna or channel having the highest overall CQM is selected (132) to receive data.

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